

Mobile SATA Spinpoint M6



Capacity		320GB	250GB
Model	8 MB	HM320JI	HM251JI

FEATURES

- Max. 160GB formatted capacity per disk
- SATA Native Command Queuing Feature
- TuMR/PMR head with FOD technology
- Serial ATA 1.5Gbps Interface Support
- Load/Unload Head Technology
- ATA Security Mode Feature Set
- ATA S.M.A.R.T. Feature Set
- SilentSeek™
- NoiseGuard™

DRIVE CONFIGURATION

Capacity ¹	250GB/320GB
Interface	SATA 1.5Gbps
Buffer DRAM Size ²	8 MB
Byte per Sector	512
Rotational Speed	5,400 RPM

PERFORMANCE SPECIFICATIONS

Average Seek time (typical)	12 ms
Data Transfer Rate	
Media to/from Buffer (Max.)	826Mbits/s
Buffer to/from Host (Max.)	150MB/s
Drive Ready Time (typical) ³	4 sec

RELIABILITY SPECIFICATIONS

Non-recoverable Read Error	1 sector in 10 ¹⁴ bits
Controlled Ramp Load/Unload	600,000

ACOUSTICS

Idle (typical)	2.4 Bel
Performance Seek (typical)	2.6 Bel

POWER REQUIREMENTS

Voltage	+5V±5%
Spin-up Current (Max.)	900 mA
Seek (typical) ⁴	2.2 W
Read/Write (typical)	2.0 W
Low Power Idle (typical)	0.6 W
Standby (typical)	0.25 W
Sleep (typical)	0.2 W

ENVIRONMENTAL SPECIFICATIONS

Temperature	
Operating	5 ~ 55 °C
Non-operating	-40 ~ 70 °C
Humidity (non-condensing)	
Operating	5 ~ 90 %
Non-operating	5 ~ 95 %
Linear Shock (1/2 sine pulse)	
Operating(2ms) ⁵	325 G
Non-operating(1ms)	1000 G
Vibration	
Operating(Random, 10~500Hz)	0.7Grms
Altitude (relative to sea level)	
Operating	-300 to 3000 m
Non-operating	-400 to 15000 m

PHYSICAL DIMENSION

Height	9.5 mm
Width	69.85 mm
Length	100 mm
Weight	102 g

* Note : Design and specifications are subject to change without prior notice.

1.1MB = 1,000,000 Bytes, 1GB = 1,000,000,000 Bytes

Accessible capacity may vary as some OS uses binary numbering system for reported capacity

2 A small portion of the 8MB buffer memory is reserved for firmware use

3 Power-On to Drive Ready

4 30% duty cycle, random seek

5. On Track Read Operation

6 Power requirements based on enabled DIPM & 1.5Gbps speed

